

CALIFORNIA REGIONAL WATER QUALITY CONTROL
BOARD
SAN DIEGO REGION
(SDRWQCB)

SUPPLEMENTAL ENVIRONMENTAL PROJECT APPLICATION FORM

Project Requested by: Orange County Coastkeeper

Name of Project: Community Kelp Restoration Project

Date of Request 1/20/03

Point of Contact Nancy Caruso

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Project Summary: This is an ongoing project to reforest giant kelp (*Macrocystis pyrifera*) in areas along the Orange County Coast which historically supported kelp beds. This is done by teaching students how to grow giant kelp and teaching community volunteer SCUBA divers to collect scientific data and how to plant giant kelp. In doing so, the community works together to reforest areas of Orange County, which historically had kelp beds.

Total Life Cycle Cost for the Project:

Project Overhead/Management	\$ 6,800
Design/Consultation	\$ 2,200
Construction/Implementation	\$ 29,000
Long Term Maintenance/Oversight	\$ 18,000

Total Project Cost \$ 56,000

Watershed/Water Body/Location for Project (attach maps)
Coastal subtidal Laguna Beach and Aliso Creek area (not the mouth of Aliso Creek)

Project Proposed Start Date and Time Line

1/04 -scout out possible reef areas (3 reefs, 500 square meters each)

1/04-6/04- collect baseline data

6/04- begin planting kelp

10/04- begin fall monitoring

Organization Sponsoring Project (tax I.D. #) 33-0847892

Name of Project Manager Nancy Caruso Phone 949-723-5424

Designated Project Trustee Orange County Coastkeeper

Description of Project Trustee capability or commitments to ensure that the project will be complete: Orange County Coastkeeper currently manages and is implementing the NOAA funded Community Kelp restoration project and a 319(b) grant funded water quality monitoring project in region 8.

Statement of Project Trustee ability/authority to receive and disburse funds
Orange County Coastkeeper is a 501 (c) (3) organization

DETAILED PROJECT INFORMATION

1. PROPOSAL DESCRIPTION To expand an ongoing program to reforest subtidal reefs off of Laguna Beach and Aliso Creek with giant kelp (*Macrocystis pyrifera*). The project is currently underway in Newport Beach (Crystal Cove State Park) This project entails recruiting community volunteers and students to make it a success.

2. PROBLEM STATEMENT Orange County has lost nearly 90% of its kelp forests in the last 30 years due to climatic events and pollution. This loss has had severe implications on the local fish populations and the overall health of our coastal waters.

3. HOW WILL THE PROJECT BENEFIT WATER QUALITY AND BENEFICIAL USES? The project will enhance our coastal subtidal areas by restoring healthy kelp forests and kelp forest species. Fishermen (commercial and recreational), divers, and the animals themselves will all benefit.

4. HOW WILL THE SUCCESS OF THIS PROJECT BE MEASURED?

Success of this portion of the kelp reforestation project will be the restoration of 1500 square meters of reef. Success is defined as completed outplanting, increase in new kelp recruits in restored area, increase in species diversity and abundance, and new information gained in the effectiveness of kelp restoration methodology. Final kelp density will be 1 plant /10m². Additionally, having volunteer participation and student learning as well as community education is one of our goals, achieving this type of involvement will also indicate success.

5. DETAILED WORK PLAN (please see attached synopsis)

I certify that the information provided in this application is an accurate and complete report of the costs, scope of work and expectations of this proposed project I am submitting to the SDRWQCB.

SIGNATURE Nancy Caruso Date 1/22/03